

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000538

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H05K 3/32, H05K 3/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H05K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5042145 A (JAN P. BOUCQUET), 27 August 1991 (27.08.1991), column 3, line 50 - column 4, line 35, figures 6-9 --	1,10-11
X	EP 0774888 A2 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD), 21 May 1997 (21.05.1997), column 8, line 17 - line 27; column 7, line 29 - line 39, figures 1,8,12-14 --	1,8,12-14
A	EP 1156525 A1 (IBIDEN CO., LTD.), 21 November 2001 (21.11.2001), [0013]-[0030] --	1-14

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance
"B" earlier application or patent but published on or after the international filing date
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"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search

31 January 2005

Date of mailing of the international search report

01-02-2005

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20020053465 A1 (YOSHIHIRO KAWAKITA ET AL), 9 May 2002 (09.05.2002), [0004]-[0014] --	1-14
A	US 4993148 A (KOHEI ADACHI ET AL), 19 February 1991 (19.02.1991), column 3, line 1 - column 5, line 30 -- -----	1-14

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Information on patent family members

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